

IN THE SPECIFICATION:

Please amend page 1 as follows:

Description

SKEW SHAPE VARIABLE LAMINATED IRON CORE AND
METHOD OF MANUFACTURING THE SAME

Background of the Invention

Technical Field of the Invention

The present invention relates to a laminated iron core in which a skew shape becomes variable after caulking lamination and a manufacturing method of the same.

Background Art

In a motor, a rotator laminated iron core formed by caulking and laminating rotator iron core pieces punched out from a metal thin plate by a die apparatus is rotatably incorporated in the inside of a stator laminated iron core formed by caulking and laminating stator iron core pieces punched out from a metal thin plate by the die apparatus.

Incidentally, in order to prevent a cogging phenomenon from occurring at a time of operation of a motor, for example, when the rotator laminated iron core is manufactured, the rotator iron core pieces are caulked and laminated while being skewed.

Here, JP-A-5-56608 discloses a skew formed in such a manner that when a punched rotator iron core piece is laminated on a previously punched rotator iron core

piece, caulking lamination is performed while shifting a position of a caulked position by rotating the previously punched rotator iron core piece side by a specified angle (skew angle).

As stated above, although the skew can be simultaneously formed when the rotator iron core pieces are caulked and laminated to form the rotator laminated iron core, the primary object of the caulking lamination is to form the rotator laminated iron core by caulking and joining the respective rotator iron core pieces.

Thus, when the rotator laminated iron core is manufactured, although the skew can be formed as stated above, after the rotator laminated iron core is once manufactured, the skew shape can not be changed.

Further, the skew shape can not be changed in the manufactured rotator laminated iron core, in the case where the use mode or the use object of a motor is changed halfway,

Page 2, between the first and second full paragraphs, amend the heading as follows:

Disclosure Summary of the Invention

Page 2, please amend the fourth, fifth, sixth and seventh full paragraphs as follows:

(2) The ~~skew shape variable laminated iron core as recited in claim 1~~, characterized in that the caulking hole ~~[[has]]~~ may have an arc shape when viewed from the rotation center at the skewing.

(3) ~~The skew shape variable laminated iron core as recited in claim 1 or 2,~~
~~characterized in that the~~ caulking hole ~~[[is]]~~ may be formed to pass through the plural
laminated iron core pieces, and the caulking projection fitted in the caulking hole formed
to pass through reaches to a lower part position of the caulking hole formed to pass
through.

(4) ~~The skew shape variable laminated iron core as recited in claim 1 or 2,~~
~~characterized in that~~

Please amend the paragraph spanning pages 2 and 3 as follows:

the caulking holes may include a first caulking hole formed in every second iron core
piece of the iron core pieces in a lamination direction, and a second caulking hole formed
at a position different from the first caulking hole and to pass through the plural laminated
iron core pieces, and

Page 3, please amend the first full paragraph as follows:

the caulking projections may include a first caulking projection reaching to a lower
part position of the first caulking hole, and a second caulking projection reaching to a lower
part position of the second caulking hole.

Page 10, please amend the fifth full paragraph as follows:

Here, each of the caulking holes 21, 23 and 25 have the same shape and each of the caulking projections 22 and 24 have the same shape, and further, the caulking holes 21, 23 and 25 formed into arc shapes with reference to the rotation center 16 of the iron core pieces 13, 14 and 15 when viewed from a plane are formed to be longer in the circumferential direction than maximum extensions L of the caulking projections 22, 24 and 22 fitted in the caulking holes 21, 23 and 25. The caulking projections 22, 24, as viewed from the side can be made, for example, a V shape, a U shape, or an inverted trapezoidal shape. The shape is not limited to these, however.